AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1	1.	(Currently amended) An overlay routing processor for transferring information
2		over a computer network, wherein the computer network has a native routing
3		protocol, the overlay routing processor comprising:
4		A method comprising performing a machine-executed operation involving
5		instructions, wherein the machine-executed operation is at least one of:
6		A) sending said instructions over transmission media;
7		B) receiving said instructions over transmission media;
8		C) storing said instructions onto a machine-readable storage medium; and
9		D) executing the instructions,
10		wherein said instructions are instructions which, when executed by one or more
l 1		processors, cause:
12		instructions for associating computer on the computer network with a
13		given overlay group;
14		receiving a signal, originating from a sender, which indicates an intention
15		of the sender to send packets to an overlay group that includes a set
16		of computers;
17		determining whether the sender has permission to send packets to the
18		overlay group;
19		if the sender has permission to send packets to the overlay group, then
20		performing the steps of:
21		instructions for determining whether received information a
22		received packet, from the sender, is associated with the
23		given overlay group;
24		instructions for determining, for each computer associated with the
25		overlay group, whether to send the received packet to a
26		particular the computer, in the set of computers, via a
27		multicast connection or a unicast connection based, at least

28		in part, on data indicating is to be transferred the
29		information using multicasts or unicasting based on a
30		request from the computer indicating a transport preference
31		of the particular computer;
32		instructions for upon determining that the received packet should
33		be sent to the particular computer via the multicast
34		connection, routing the received information packet to the
35		computers particular computer having requested a multicast
36		connection using the a native routing protocol to provide
37		the information send the received packet by multicasting;
38		and
39		instructions for upon determining that the received packet should
40		be sent to the particular computer via the unicast
41		connection, routing the received information packet to the
42		computers particular computer having requested a unicast
43		connection-using the native routing protocol to provide the
44		information send the received packet by unicasting.
1	2-9.	(Cancelled).
1	10.	(Currently amended) The overlay routing processor method of claim 1, further
2		comprising instructions for wherein said instructions, when executed by the one or
3		more processors, further cause:
4		handling administrative scoping preventing a multicast packet to be blocked at a
5		boundary point, wherein the multicast packet has a network address within
6		a specified range of network addresses.
1	11.	(Currently amended) The overlay routing processor method of claim 1, further
2		comprising instructions for wherein said instructions, when executed by the one or
3		more processors, further cause:
4		in response to detecting that an amount of available bandwidth on a network is
5		below a threshold, servicing a plugin modules module thinning a packet

0		stream, wherein said received packet is part of said packet stream.
1	12.	(Currently amended) The everlay routing processor method of claim 1, further
2		comprising instructions for wherein said instructions, when executed by the one or
3		more processors, further cause:
4		placing a limit on the number of transfers between computers for a given portion
5		of information packet.
1	13.	(Currently amended) The overlay routing processor method of claim 12, wherein
2		information is transferred between the computers in packets, the overlay routing
3		processor further comprising instructions for wherein said instructions, when
4		executed by the one or more processors, further cause:
5		placing a "time-to-live" value in a field in a of said received packet.
1	14.	(Currently amended) The everlay routing processor method of claim 1, further
2		comprising instructions for wherein said instructions, when executed by the one or
3		more processors, further cause:
4		preventing the transfer of information of packets between predetermined
5		computers.
1	15.	(Currently amended) The overlay routing processor method of claim 14, wherein
2		said instructions, when executed by the one or more processors, further cause:
3		storing one or more addresses that each identify a computer, and
4		wherein the step of preventing the transfer of packets includes using the one or
5		more addresses to prevent the transfer of packets to any computer
6		identified by the one or more addresses.
7		wherein one or more computers are identified by an address, the overlay routing
8		processor further comprising using the address to prevent the transfer of
9		information between predetermined computers
1	16-23	(Withdrawn).
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